

2007-07-08 4705-0111PUS1 ST25.txt
SEQUENCE LISTING

<110> Camargo, Antonio C.M.
Hayashi, Mirian A.F.
Portaro, Fernanda C.V.
Guerreiro, Juliano R.

<120> PROCESS FOR THE DETERMINATION OF THE PRIMARY STRUCTURE OF THE MESSANGER
RNA CODING FOR THE HUMAN RECOMBINANT ENDOOLIGOPEPTIDASE A (HEOPA)
[AF217798]

<130> 4705-0111PUS1

<140> 10/538,071
<141> 2006-05-04

<150> BR0205000-5
<151> 2002-12-09

<150> BR0305688-0
<151> 2003-12-05

<160> 8

<170> PatentIn version 3.3

<210> 1
<211> 2179
<212> DNA
<213> Oryctolagus cuniculus

<400> 1
cctgacgtgt cggggaggag ccgggtgccg aggtgcgcgg agtggagctc agggctgcgg 60
agggaagcgg agctgagcgg ctggggcggc ctggccaggc cagcggagct gaggcgtcgg 120
tcagccggcg gcgaacatgc gcttttgaca cattggaggc tttcttgatc atggatggtg 180
aagatatacc agatttttca agtttaaagg aggaaactgc ttattggaag gaactttcct 240
tgaagtataa gcaaacgttc caggaagctc gggatgagct agttgaattc caggaaggaa 300
gcagagaatt agaagcagag ttggaggcac aattagtaca ggctgaacaa agaaatagag 360
acttgcaagc tgataaccaa agactgaaat atgaagtgga ggcgctaaag gagaaactgg 420
aacatcagta cgcacagagc tacaagcagg tttccgtatt agaagatgat ttaagtcaga 480
ctcggggccat taaggagcag ttgcacaagt acgtgaggga gctggagcag gccaatgatg 540
acctggagcg agcaaaaagg gcaacaatag tttcactgga agactttgaa caaaggctaa 600
atcaggccat agaacggaat gcatTTTTtag aaagtgaact tgatgaaaag gaatctttgt 660
tggtctctgt acagcgggta aaggatgaag caagagattt gaggcaagaa ctagcagtcc 720
gagaaagaca acaggaagtg accagaaagt cggctcctag ttctccaact ctagactgtg 780
aaaagatgga ttctgctgta caagcatcac tttccttgcc agctacacct gttggcaaag 840
ggacagaaaa cagtttttct tccccaaaag ctatacaaaa tggtttttgg accagtccac 900
taactccttc ggccaggata tcagcgctaa acattgtggg ggatctctta cggaaagtag 960

2007-07-08 4705-0111PUS1 ST25.txt

```
gggctttaga atccaaatta gcagcttgca ggaatTTTgc aaaggaccaa gcatcacgga 1020
aatcctatat ttcagggaaT gttaactgtg gggTgatgaa cagcaacggc acaaagttct 1080
ctcgatcagg gcatacatct ttcttcgaca aaggggcagt aaatggcttt gacccagctc 1140
ctcctcctcc tggcctgggc tcctcgcgcc cgTgtcagc acccggtatg ctgccgctca 1200
gtgtgtgagt gcccggcctc cggggctcct gccctcctcc aacaaccag gacaccacg 1260
cctcaccct cggtgcctgg gccagccct gtgccccctc atctgcctcc ccacacggct 1320
ggcagagggc aggctgcatg cagtggcggT gcttcggccc tgcccagccc caggactctg 1380
cgcgatatca atactggcta ttttctcttC tcgccgtagt gccgttggtt tcacatgatt 1440
gcacttttgt gggTcacgag gtgatacata cttgtattac ttggTcactg gatgcagaag 1500
taccattttg tcatccctgc ctcatagccc ccgccctgct gtactgatag gatttagttg 1560
tgtttaggac attgcgaatc ttctacaagt tctccccaa tcaggttgac acataccctc 1620
ctcctgagcc ccccgagccc cctgggcgcc ctCagtgtc acgatcatgt gtttcccggc 1680
cctaccccca gtctgggccc gttactgcca ggagtcagga aggtcgctga gttagggaat 1740
attgtctgta ctctcgTTTT acgtagcagt tccatccata gactgcctcc agagcagtga 1800
aacgccatgc tgagccccct ggcaggagcc tcgtgcctgg gcacgcacgg gctgagcctc 1860
aggccatctc ctctccatg tgccTcagac tcgggggagg ggtgacggcg tccgtgccag 1920
tgtcctgtgc atcctttgat tactctcatg ctgcatttac tgtttacatt tgttttattg 1980
tacatagggt tgtaaacatt attgcctaag atatttgtat ataacttggg ctttgtagct 2040
tttatttatt cagaactcat atggcatgtt aatgactccc gatggtgtcc tactctgggc 2100
agctgtatag gatcatcatg tggTtaaaaa accagttccc tcaaaaaaaaa tcttttaatg 2160
tggaacaat aaatttcac 2179
```

<210> 2
<211> 2393
<212> DNA
<213> Homo sapiens

```
<400> 2
agaatggcct cggacacca ggcagtccct gacgtgtcgg ggaggagccg ggcgcggagg 60
tacgtgagt ggagctcggg gctgcgtagg ggagctgagc cgagcggctg ggcgggcctg 120
gccgggccag cggaggggag acgtcggttg agcggcggcg aacatgcgct tttgacacat 180
tggaaggcttt cttgatcatg gatggtgaag atataccaga tttttcaagt ttaaaggagg 240
aaactgctta ttggaaggaa ctttccttga agtataagca aagcttccag gaagctcggg 300
atgagctagt tgaattccag gaaggaagca gagaattaga agcagagtTg gaggcacaat 360
tagtacaggc tgaacaaaga aatagagact tgcaggctga taaccaaaga ctgaaatatg 420
```

aagtggaggc attaaaggag aagctagagc atcaatatgc acagagctat aagcaggtct	480
cagtgttaga agatgattta agtcagactc gggccattaa ggagcagttg cataagtatg	540
tgagagagct ggagcaggcc aacgacgacc tggagcgagc caaaagggca acaatagttt	600
cactggaaga ctttgaacaa aggctaaacc aggccattga acgaaatgca tttttagaaa	660
gtgaacttga tgaaaaggaa tctttgttgg tctctgtaca gaggttaaag gatgaagcaa	720
gagatttaag gcaagaacta gcagttcggg aaagacaaca ggaagtaact agaaagtcgg	780
ctcctagctc tccaactcta gactgtgaaa agatggactc cgccgtacaa gcataccttt	840
ctttgccagc taccctgtt ggcaaaggaa cggagaacac ttttccttca ccgaaagcta	900
taccaaattg ttttgggtacc agtccactaa ctccctctgc taggatatca gcactaaaca	960
tcgtggggga tctcttacgg aaagtagggg ctttagaatc caaattagca gcttgcagga	1020
attttgcaaa ggaccaagca tcacgaaaat cctatatctc agggaatgtt aactgtgggg	1080
tgctgaatgg caatggcaca aagttctctc gatcagggca tacatctttc ttcgacaaag	1140
gggcagtaaa cggctttgac cccgctcctc ctccctctgg tctgggctcc tcgctccat	1200
cgtcagcgcc gggatgctg cctctcagtg tgtgagtgcc tagcctccag gtgggggctc	1260
ctgccctcct ccaacaaccc aggacacca cgccacccc ctcggtgcct gggcccagcc	1320
ccgtgcccct ccgtctgcct ccgcacggct ggcagagggc aggctgcatg cagtggcggc	1380
tactggggcc tgcccagccc cggaactctg cgcgatatca atactggcta ttttctcttc	1440
tcgccgtagt gccgttggtt tcacatgatt gcacttttgt gggtcgcaag gtgatacata	1500
cgtgtattac ttggtcactg gatgcagaag taccattca tcacacctgc cccatagccc	1560
ccactctgct gtactgatag gatttagttg tgttttagga cattgcaaat cttctagaag	1620
ttctcccca aatcagggtca atgtgtgccc tcctgagctc ccacccaggc atctccagt	1680
ctcatgatca tgtgtcccc aactccaccc ctacagttt gggcctgttt ctggcaaaga	1740
gtcaggaagg ttactgaatt agggaaacatt ttctgcacct tctgatttta cttaaagcagc	1800
taccattcca tggacttgcc tcccagagca gcacaatgcc cgtctgagcc ccacgtggca	1860
ggagcctctg ggacggggca cacacaggcc cagcctctgt gctgtctcct cctctgtgcg	1920
cctcagactc ggggtgaggg aggcgggcag cctctcgcca gccttcccgt ccttcagttc	1980
aacgacatct ttggagtgtt tttgttttct cttccaaggg ccgtcccgtt gtgttaggaa	2040
gggtgagtgg ctggttccag ggtgggccgg tgccagctcc ggggtggact gaacagcggc	2100
ggctgtccct gtgcatcctt tgattactct catgctgcat ttactgttta cttttgtttt	2160
attgtacata ggtttgtaaa cattattgcc tgagatattt gtatataact tgggctttgt	2220
agcttttatt tattcagaac gcatacggca tgttaatgac tctgatggtg tcctcctctg	2280

ggcagctgta taggatcatc atgtggttac aaaaaatact tccctcaaaa aaattctttt 2340
aatgtggaaa caataaatTTT cacagaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2393

<210> 3
<211> 345
<212> PRT
<213> Homo sapiens

<400> 3

Met Asp Gly Glu Asp Ile Pro Asp Phe Ser Ser Leu Lys Glu Glu Thr
1 5 10 15

Ala Tyr Trp Lys Glu Leu Ser Leu Lys Tyr Lys Gln Ser Phe Gln Glu
20 25 30

Ala Arg Asp Glu Leu Val Glu Phe Gln Glu Gly Ser Arg Glu Leu Glu
35 40 45

Ala Glu Leu Glu Ala Gln Leu Val Gln Ala Glu Gln Arg Asn Arg Asp
50 55 60

Leu Gln Ala Asp Asn Gln Arg Leu Lys Tyr Glu Val Glu Ala Leu Lys
65 70 75 80

Glu Lys Leu Glu His Gln Tyr Ala Gln Ser Tyr Lys Gln Val Ser Val
85 90 95

Leu Glu Asp Asp Leu Ser Gln Thr Arg Ala Ile Lys Glu Gln Leu His
100 105 110

Lys Tyr Val Arg Glu Leu Glu Gln Ala Asn Asp Asp Leu Glu Arg Ala
115 120 125

Lys Arg Ala Thr Ile Val Ser Leu Glu Asp Phe Glu Gln Arg Leu Asn
130 135 140

Gln Ala Ile Glu Arg Asn Ala Phe Leu Glu Ser Glu Leu Asp Glu Lys
145 150 155 160

Glu Ser Leu Leu Val Ser Val Gln Arg Leu Lys Asp Glu Ala Arg Asp
165 170 175

Leu Arg Gln Glu Leu Ala Val Arg Glu Arg Gln Gln Glu Val Thr Arg
180 185 190

Lys Ser Ala Pro Ser Ser Pro Thr Leu Asp Cys Glu Lys Met Asp Ser
195 200 205

2007-07-08 4705-0111PUS1 ST25.txt

Ala Val Gln Ala Ser Leu Ser Leu Pro Ala Thr Pro Val Gly Lys Gly
210 215 220

Thr Glu Asn Thr Phe Pro Ser Pro Lys Ala Ile Pro Asn Gly Phe Gly
225 230 235 240

Thr Ser Pro Leu Thr Pro Ser Ala Arg Ile Ser Ala Leu Asn Ile Val
245 250 255

Gly Asp Leu Leu Arg Lys Val Gly Ala Leu Glu Ser Lys Leu Ala Ala
260 265 270

Cys Arg Asn Phe Ala Lys Asp Gln Ala Ser Arg Lys Ser Tyr Ile Ser
275 280 285

Gly Asn Val Asn Cys Gly Val Leu Asn Gly Asn Gly Thr Lys Phe Ser
290 295 300

Arg Ser Gly His Thr Ser Phe Phe Asp Lys Gly Ala Val Asn Gly Phe
305 310 315 320

Asp Pro Ala Pro Pro Pro Pro Gly Leu Gly Ser Ser Arg Pro Ser Ser
325 330 335

Ala Pro Gly Met Leu Pro Leu Ser Val
340 345

<210> 4
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide
<400> 4

Gly Phe Ala Pro Phe Arg Gln
1 5

<210> 5
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide
<400> 5

Arg Pro Pro Gly Phe Ser Pro Phe Arg
1 5

<210> 6
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide
<400> 6

Glu Leu Tyr Glu Asx Lys Pro Arg Arg Pro Tyr Ile Leu
1 5 10

<210> 7
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide
<400> 7

Tyr Gly Gly Phe Leu
1 5

<210> 8
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide
<400> 8

Tyr Gly Gly Phe Met
1 5